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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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This is UNEVALUATED Information

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)

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1. a. This system will roughly form a ring round the Soviet Zone, and terminal stations are being set up at the following places:

Frankfurt/Oder
goerlitz
Bautzen-Neustadt
Hella Airfield, Dresden
Frauenstein
Adelsberg, Chemnitz
Rochlitz
Leipzig

Petersberg (Halle)
Erfurt
Magdeburg
Schwerin
Rostock
Stralsund
Greifswald
Anklam

Relay stations will be set up between Frankfurt and goerlitz; Halle and Erfurt, at Kyffhaeuser between Erfurt and Magdeburg and between Magdeburg and Schwerin.

- b. The system is intended to carry speech channels only and is to be used in conjunction with the existing static line network, with which facilities for interconnection will be provided. [] the Russians would also make use of the decimeter links.

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- c. Construction began in April 1953 and completion of the whole system is due some time in 1954. []

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[] no individual link had been brought into operation.

2. a. The buildings are of wood on concrete foundations. The following equipment is installed by Sachsenwerk Radeberg in conjunction with VEB Anlagenbau, Berlin-Koepenick:

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25 YEAR RE-REVIEW

STATE	x	ARMY	x	NAVY	x	AIR	x	FBI		AEC		ORR Ev	x	OSI Ev	x
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Aerial system (See paragraph 2,d, below)
 Transmitter and Receiver Equipment RVG 903 B
 Carrier Telephony Equipment EV16
 3 KW gasoline engine driven generator with automatic
 change-over against mains failure
 Pintsch automatic voltage regulator

230V. AC mains supply is obtained from a transformer installed near each station. Frequencies will be changed at each relay station in order to avoid mutual interference between transmitters and receivers.

- b. Maintenance will be carried out by Volkspolizei Signals personnel who are being trained at Radeberg and later at the KVP Signals School at Pirna. All stations will be permanently staffed; the most simple type of relay station will require 5 men working shifts, i.e. 2-2-1. Under normal conditions, however, transmissions will only take place during [REDACTED] ILLEGIB
 For the future, Sachsenwerk-Radeberg is developing an unattended relay station.
- c. Equipment RVG 903B. Designed for operation within the frequency range 1200-15000 mcs. = 20-25 cm. wavelength. Accommodates 10 channels. Transmitter 4-stage frequency modulated comprising one generator stage, one mixing amplifier stage and two HF amplifier stages. Transmitter tubes LD-11 and LD-12 with air cooling. Final output 15-20 watts.
- d. Receiver. Resonance oscillator circuit with LD-12 tube. Automatic frequency hunting and volume control on the heterodyne principle. Intermediate frequency = 10.7 mcs. Frequency bandwidth = 30-400 kcs, but only the range 30-140 kcs is used (140 kcs = carrier frequency for level control). The whole equipment is rack-mounted.
- e. The aerial system, consisting either of a horn or parabolic antenna, is on a tower belonging to the inn situated on the highest point of the Schleifberg (known locally as "Czorneboh") near Bautzen.² The tower has several stories which house the transmitting and receiving equipment. A wooden structure, similar to a fire tower of four platforms, was erected on top of the tower two years ago to increase the field strength. The antennas were beamed on the Sachsenwerk Radeberg, as an experiment. The lower pair are horn aeriels with pre-fixed lenses and polarized horizontally and vertically. They are used in conjunction with the RVG-903B decimeter set and require a separate aerial cable for sending and receiving. The top pair are parabolic aeriels of the latest type (sic). They are used for both stationary and mobile decimeter stations. The dipole is arranged vertically ($\lambda/4$). Transmission and reception are carried out over an antenna cable and a high pass filter. The diameter of the reflector is 1.5 meters. The obsolescent horn antenna is no longer being produced, as the disadvantages of the parabolic antenna (small aerial gain) can be offset by an increase in the strength of the emission.
- f. Telephone Carrier Equipment. The EV 16 carrier equipment used in conjunction with the RVG 903B is basically the same as ME8, but is equipped for 16 channels in the range 6-60 kcs. The channel bandwidth is 30-2400 c/s with 2.9 kc. spacing.

3. The following stations were known [REDACTED]

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<u>Location</u>	<u>Height above sea level</u>
Valtenberg near Neukirch	609.2 m.
Ruhner Berge/ Jabelitzer Hoehen, Hohe Burg (also Deutsche Post)	106 m.

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<u>Location</u>	<u>Height above sea level</u>
Boxdorf near Dresden (also Deutsche Post)	293.5 m.
Halle-Petersberg (Kloster) (also Deutsche Post)	-
Kyffhaeuser (also Deutsche Post)	457 m.
Erfurt-Am Anger (also Deutsche Post)	328.9 m.
Bad Freienwalde, Platzfelde (also Deutsche Post)	152.8 m.
Marienthal Eckartsberga near Bad Sulza	-
Rheinsberg Fire Watch Tower	100 m.
Chemnitz-Adelsberg (also Deutsche Post)	397.6 m.
Berlin-Koepenick Mueggelberg	-

4. Point to Point systems. The KVP is equipped with portable transmitter/receiver sets, type DT 911-920, operating in the wavelength range 50-60 cm. and with a working distance of 70-80 km. This equipment was also supplied by Sachsenwerk Radeberg and can be used for point to point telephone or telegraph links. They have no connection with the main decimeter system. The Soviet Army and the Seepolizei have also been supplied with several hundred of these sets by Sachsenwerk-Radeberg.

1. ☐ Comment: See attached schematic diagram.

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2. ☐ Comment: Because of its central position in the Lusatian mountains, the Schleifberg is particularly important from a strategic standpoint. The East German Ministry of Posts and Telecommunications has no interest in the site, but it may be of interest to the KVP.

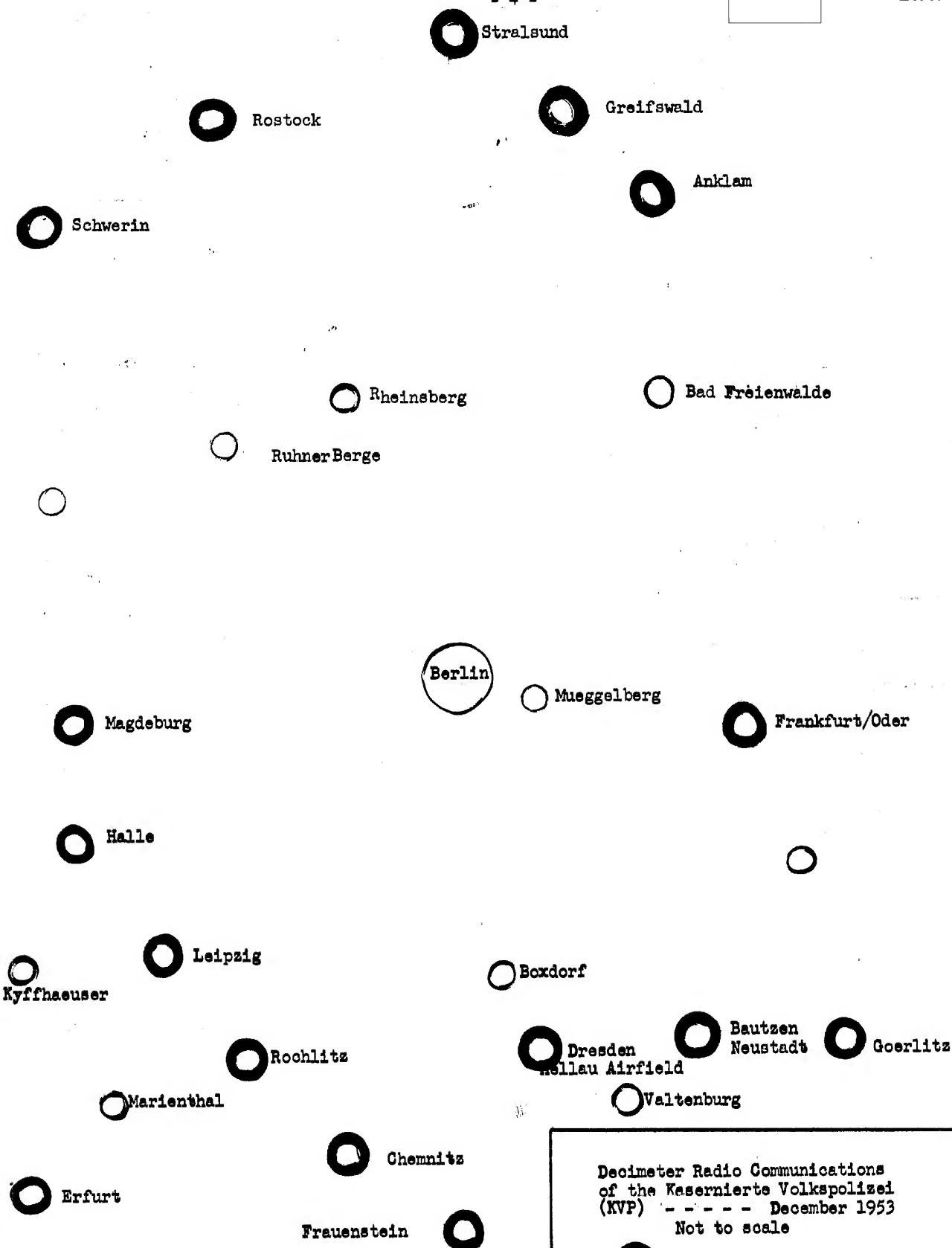
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Decimeter Radio Communications
of the Kasernierte Volkspolizei
(KVP) - - - - - December 1953
Not to scale

- Terminal station

- Relay station

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